AMENDMENTS TO THE CLAIMS

In the Claims, please cancel claims 14 and 22 and amend claims 13 and 16 as follows:

- 1-12. (canceled)
- 13. (currently amended) A process for analyzing gene function comprising:
 - a) injecting a naked polynucleotide encoding the gene into a blood vessel lumen, in vivo;
 - b) increasing <u>permeability in the blood vessel</u> the propensity for macromolecules to move through vessel walls and enter the extravascular space; [[and,]]
 - c) delivering the naked polynucleotide to an extravascular cell outside of the blood vessel via the increased permeability, wherein the gene is expressed; and,
 - d) analyzing the effects of expression of the gene on the cell.
- 14. (canceled)
- 15. (previously presented) The process of claim 13 wherein the gene encodes a protein.
- 16. (currently amended) A process for analyzing gene function comprising:
 - a) injecting a naked oligonucleotide that is not expressed into a blood vessel lumen, *in vivo*;
 - b) increasing permeability in the blood vessel the propensity for macromolecules to move through vessel walls and enter the extravascular space; [[and,]]
 - c) delivering the naked oligonucleotide to an extravascular cell outside of the blood vessel via the increased permeability; wherein delivery of the oligonucleotide to the cell results in decreased expression of the gene; and,
 - d) analyzing the effects of decreased expression of the gene on the cell.
- 17. (previously presented) The process of claim 16 wherein the oligonucleotide consists of a single strand oligonucleotide.
- 18. (previously presented) The process of claim 17 wherein the single strand oligonucleotide consists of anti-sense oligonucleotide.
- 19. (previously presented) The process of claim 18 wherein the anti-sense oligonucleotide consists of an artificial oligonucleotide.

- 20. (previously presented) The process of claim 16 wherein the oligonucleotide consists of double strand nucleic acid.
- 21. (previously presented) The process of claim 20 wherein the double strand oligonucleotide comprises RNA.
- 22. (canceled)
- 23. (previously presented) The process of claim 21 wherein the double strand oligonucleotide consists of a nucleic acid sequence comprising 10 to 50 bases.
- 24. (previously presented) The process of claim 23 wherein the double strand oligonucleotide consists of a nucleic acid sequence comprising 18 to 25 bases.
- 25. (previously presented) The process of claim 16 wherein the oligonucleotide comprises sequence that is similar to a portion of the gene sequence.
- 26. (previously presented) The process of claim 22 wherein the gene is an endogenous gene.
- 27. (previously presented) The process of claim 22 wherein the gene is a viral gene.
- 28. (previously presented) The process of claim 13 wherein analyzing gene function comprises drug design.
- 29. (previously presented) The process of claim 16 wherein analyzing gene function comprises drug design.